

## **Methodological Details**

### **Medical Screening**

Screening and testing took place in the Outpatient Research Department at the Nathan Kline Institute in Orangeburg, NY. All participants provided informed consent, after which they passed a preliminary medical screening ensuring cardiovascular health, no major medication contraindications, and the absence of major psychiatric disorders. This screening included an electrocardiogram (EKG), a physical, and a review of their medical history, as performed by an MD or RN. The inclusion and exclusion criteria were as follows:

#### *Medical Exclusion Criteria (Exclusions pertinent to medical safety):*

- 1) History of allergic reaction to propranolol
- 2) History of cardiac structural disease including cardiomyopathy and valvular disease excluding instances of resolved benign cardiac murmur of childhood. A grade 1-3 cardiac murmur is permissible with documented approval from the participant's primary outpatient medical doctor.
- 3) History of myocardial infarction
- 4) History of atrial fibrillation, atrial flutter, 2<sup>nd</sup> or 3<sup>rd</sup> degree AV block. Sinus arrhythmia due to respiratory heart rate variability in an otherwise healthy individual will be permissible. Other EKG abnormalities are permissible with cardiology approval or approval from the participant's primary outpatient medical doctor.
- 5) History of intubation from asthma
- 6) History of diagnosed asthma requiring use of a rescue inhaler, maintenance medication, or other treatment within the past 7 years
- 7) Diabetes mellitus requiring insulin replacement therapy
- 8) Uncontrolled thyroid disease
- 9) History of glaucoma or elevated ocular pressures
- 10) Active cocaine use (cocaine use within the past 2 months)
- 11) Clinical suspicion for pregnancy
- 12) Currently breast feeding
- 13) If they are taking the following medications for any reason:
  - a. Alpha-adrenergic blocker
  - b. Amioderone
  - c. Beta-blocker
  - d. Chlorpromazine
  - e. Cimetidine
  - f. Clonidine
  - g. Digoxin
  - h. Diazoxide
- 14) If they have a resting:
  - a. heart rate of 55 beats per minute or below
  - b. systolic blood pressure outside of the range of 90-160
  - c. diastolic blood pressure outside of the range of 60-100
- 15) Younger than 18 year old

- 16) Older than 40 years old
- 17) Any additional condition or finding deemed to elevate medical risk in participation

*Scientific Inclusion/Exclusion Criteria (Exclusions pertinent to data quality but not medical safety):*

Inclusion:

- 1) Completed at least 1 year of college
- 2) Fluent English speaker

Exclusion:

- 1) Vision impairment not corrected to normal w/ glasses or contacts
- 2) Personal medical history of:
  - a. Seizure disorder/epilepsy
  - b. Significant head injury (loss of consciousness > 30 min)
- 3) History or current psychiatric diagnosis of:
  - a. Schizophrenia
  - b. Schizoaffective disorder
  - c. Alcohol dependence
  - d. Sedative-hypnotic dependence
  - e. Cannabis dependence
  - f. Opioid abuse or dependence
  - g. Cocaine dependence
  - h. Hallucinogen dependence
- 4) Anything else that may result in a deficit in the participant's ability to perform the task.